

SHIP SYSTEM	SUBSYSTEM	MRC CODE R-	
SYSTEM Remote Operating Gear	EQUIPMENT Mechanical Remote Operators for Valves	RATES GS-11/12	M/H 24.0
MAINTENANCE REQUIREMENT DESCRIPTION 1. Conduct SEMAT assessment of remote manually operated valve. 2. Test operate remote manually operated valve.		TOTAL M/H 24.0 ELAPSED TIME	
SAFETY PRECAUTIONS 1. Forces afloat comply with NAVOSH Program Manual for Forces Afloat, OPNAVINST 5100.19 series.			
TOOLS, PARTS, MATERIALS, TEST EQUIPMENT MATERIALS 1. [0866] Marker, tube type 2. [1102] Rags, wiping 3. [1170] Mirror, inspection 4. [1463] Wrench, adjustable, 8" heavy duty, 0.987" jaw open TOOLS 1. [0608] Hammer, hand, Machinist's ball peen, 24 OZ, nonsparking 2. [0892] Mirror, inspection, 2-1/4" dia glass, adjustable length handle 5. [2271] Flashlight, Type 3, style 1, explosive proof 6. [3886] Screwdriver, flat tip, 6" MISCELLANEOUS 1. Radio, Walkie-Talkie (2)			
NOTE: Numbers in brackets can be referenced to Standard PMS Materials Identification Guide (SPMIG) for stock number identification.			PAGE 1 OF 3
PROCEDURE NOTE 1: Two assessors and man-hours assigned are average for DD class ships and may require adjustment for other class ships.			
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LOCATION		DATE August 1997	N

PROCEDURE (Contd)

Preliminary

- a. Compile the following documents before going on-board ship.
 - (1) From the Damage Control Book, obtain a list of remote operated valves. The valve list should indicate:
 - (a) System
 - (b) Valve Number
 - (c) Valve Location
 - (d) Function
 - (e) Control Panel location
 - (f) Kind of valve
 - (g) Valve size
 - (h) Valve type
 - (i) Responsible Division
 - (j) Damage Control Classification
 - (2) Copy of EOSS Diagram that shows the complete ROG for each system.
 - (3) Technical Manuals on ROG: Such as ELLIOTT MANUFACTURE for Remote Valve Operators, TELEFLEX for remote Mechanical Valve Actuator, and Design Manual for Marine Valve Remote Operators.
- b. Accomplish the following on-board ship:
 - (1) Review SEMAT 2-Kilos and ships CSMP reports. Add additional information if required and close out 2-Kilos/CSMP reports that are completed.
 - (2) Contact ship's force in CCS to obtain two (2) Portable Radios and two (2) people from S/F to cycle valves.

NOTE 2: It is mandatory that ship's force personnel are present to cycle valves.

1. Conduct SEMAT Assessment of Remote Manually Operated Valve.

NOTE 3: There are four kinds of remote operating gear.

- (1) Rigid Rod System.
 - (2) Flexible Shaft System.
 - (3) Combination Rigid Rod and Flexible Shaft System.
 - (4) Teleflex RMVA System.
- a. Assess all valves for any missing label plates, DC number, valve number, valve designation, DC classification at the remote location and adjacent to the valve and handwheel.
 - b. Assess deck box cover for ease of operation, check for missing o-ring(s) and check for cuts or tears in the o-ring. Check chain assembly breaks.
 - c. Assess shaft and shaft assembly for excessive wear or corrosion and ensure shear pin is installed. Assess universal joint. Check 90 degree gear box, swivel gear joint, and rising stem for misalignment.
 - d. Assess for adequate support of the flexible shaft and check for cracks, distortion, rust, and corrosion.
 - e. Assess valve coupling, handles, handwheels, and rising stem valve for cracks, breaks, deterioration, rust, corrosion, and damaged or missing parts.
 - f. Assess all mounting bolts, nuts, and packing gland studs for rust, corrosion, loose, and damaged or missing parts.

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PROCEDURE (Contd)

2. Test Operate Remote Manually Operated Valve.

NOTE 4: Assessors must establish communication between the remote station and the valve location before ship's force personnel cycle the valve.

NOTE 5: Before cycling any discharge or suction valve for fire pumps, check with CCS. Ensure main, secondary drain, and SW cooling valves are cycled in the correct order.

WARNING: Ensure valve can be operated without disrupting equipment, plant or system operation and will not cause flooding.

- a. Station a man at the remote station and a man at the valve(s). Establish communication.
- b. Operate each valve through a full travel cycle; assess for freedom of movement.
- c. Observe position indicator, for correct indication when valve is in the fully open position and fully closed position.
- d. Assess linkage for proper operation.
- e. Ensure valve is easy to operate at the deck box and at the valve.

NOTE 6: If the valve appears frozen and the valve coupling has a quick disconnect, disconnect the rigid rod from the valve to determine if rigid rod is frozen or if the valve is frozen. If possible try to free-up the valve if the valve is frozen, then connect and test the rigid rod again from remote operator.

- f. Remove safety tag(s) from isolation valve(s), if applicable.
- g. Return system to readiness condition.

3. All discrepancies shall be noted on applicable discrepancy identification forms (i.e. 2-Kilos or Material Assessment Form).

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